

Logistics Estimation Workbook – Marine Corps



Maj Joe Monroe



Logistics Estimation Workbook – Marine Corps

MSTP

- Contains generally accepted planning factors used to compute unit
 - operating tempo (OPTEMPO)
 - personnel planning
 - and materiel readiness of units
- Assists staff officers in developing information that facilitates the preparation of estimates of supportability throughout the planning process
- Should not replace more thorough calculations required for detailed planning. It provides only general information.
- No single tool should ever be solely relied upon for establishing planning factors or as a basis for determining the supportability of a proposed operation
- 22 October 2001

Overview



MSTP

- USMC has no single, comprehensive, simple to use automated planning tool available to compute general logistics information necessary to support development of staff estimates during the MCPP.
- Operational planning teams (OPTs) can develop COAs relatively quickly, but logistics planners do not have a means of rapidly developing information to prepare staff estimates and estimates of supportability.
- Several automated planning tools exist, they represent a single commodity
- No comprehensive automated planning tool exists for the logistics planners to use that will rapidly calculate the logistics support required for COAs developed during planning.

Background



MSTP

- Developed by the Army Management College Support Operations Course at Fort Lee, VA to support logistics training. This automated tool is called the Logistics Estimation Workbook (LEW). This is a locally developed automated tool designed to support rapid estimation for planning.
- The LEW has several key features that differentiate it from other automated planning tools
 - It can be rapidly tailored to support unit planning requirements
 - It provides calculations associated with specific mission profiles (e.g. attack, delay, hasty defense, etc.) and climatic conditions
 - User's can override doctrinal planning factors.

Background



MSTP

- The Logistics Estimation Workbook (Marine Corps Version) [LEW (MC)] Planning Tool is tailored to support planning for the employment of Marine Corps units based upon Marine Corps Tables of Organization/Tables of Equipment
- The LEW automates many manual calculations, to include:
 - computing personnel losses
 - type of medical care required
 - casualty evacuation requirements
 - subsistence transportation requirements by mode
 - water requirements
 - materiel losses
 - type of maintenance required
 - evacuation requirements for maintenance losses
 - fuel consumption

Background



MSTP

- The LEW allows operations and logistics planners the ability to perform rapid calculations needed to provide information in support of the Marine Corps Planning Process
- It is an automated tool that provides general information necessary that commanders and staff officers need to support COA development and other associated planning requirements
- It can be rapidly tailored to support unit planning requirements; it provides calculations associated with specific mission profiles (e.g. attack, delay, hasty defense, etc.) and climatic conditions; and user's can override doctrinal planning factors
- The LEW is not intended to determine finite logistical requirements



Planning Factors

MSTP

- Planning factors represent a key component of force requirements determination and estimation
- In the absence of recent “actual” information based upon current operations, planning factors serve as the basis for calculations to determine personnel losses, rations and water requirements, supply requirements, and materiel readiness rates, and bulk fuel requirements
- The planning factors used to support the LEW (MC) are found primarily in
 - MSTP Pam5-0.3, *MAGTF Planner's Reference Manual* (Apr 01) for Marine Corps specific organizational data and some logistics data
 - The US Army Command and General Staff College G1/G4 Battle Book (Jul 98) provides information related to the impact of mission profiles upon casualty estimation and materiel readiness; and climatic conditions as they affect the logistics posture a unit

General



MSTP

- The Logistics Estimation Workbook (Marine Corps Version) [LEW (MC)] represents an automated tool that will provide the general information necessary to allow Marine air-ground task force (MAGTF) planners to develop initial logistics estimates and estimates of supportability during operational planning.
- The LEW (MC) uses doctrinal combat profiles and usage rates to calculate supply, maintenance, transportation, and casualty estimates. The planning factors, data, and procedures were derived by using information contained in current staff planning manuals, Marine Corps reference publications, Army field manuals, and service technical manuals
- While the planning factors used in the LEW (MC) represent currently available data, some of the information may not represent service specific “approved” data.



Unique

MSTP

- The unique feature about the LEW (MC) is its adaptability.
- Whenever a “doctrinal planning factor” is displayed, it does not represent the only available option.
- Personnel using the LEW (MC) can override the doctrinal entries and tailor planning factors for specific operations or missions based upon more recent data or consumption history.
- This entered data will take precedence over the doctrinal entry, and the LEW (MC) will make calculations based upon this “entered” data.
- One can enter data in a sequential, process-oriented fashion to reflect an operation over several days.
- On the other hand, personnel can enter data in a nonprocess-oriented format.
 - For example, if there is a need to determine transportation requirements of bottled water for 4500 personnel at 3.8 gallons per person per day, the LEW (MC) only requires entries directly associated with water consumption.

Use



MSTP

- The LEW (MC) consists of three general sections: Planning Factors Pages, Computation Pages, and the Loss and Repair Factors Page. The Planning Factors Pages establish the basis for the calculations that will occur in the Computation Pages. MAGTF staff officers use these pages to define operating tempo (OPTEMPO), personnel, and vehicle planning factors used to calculate the information contained in each of the computation pages.
- The Computation Pages display the results of calculations that determine personnel losses; rations and water requirements and subsistence transportation requirements by mode; general supplies requirements; mission capable rates for tracked, wheeled vehicles, and helicopters; bulk fuel requirements; and identify total movement requirements.
- The Loss and Repair Factors Page represents the database that contains the planning factors used to support computations made throughout the workbook.

Summary



MSTP

- Situation
- Mission
- Execution
 - Director's Intent
 - CONOPS
 - Tasks
 - Coordinating Instructions
- Admin & Logistics
- Command & Signal